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1. Form numbers of publications included in the 7090 Systems Reference Library are listed below. Abstracts will be found in the 7090 Bibliography, A28-6306, or in Section 2 of this Newsletter. Technical Newsletters -- Notices of changes and corrections to publications -- should be filed with the item to which they apply. New entries in this list are bracketed.

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	X28=1305-0	Comm Translator Procedure
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	X28-1306-0	Comm Translator Data Descript
	X28-1464-1	COBOL Program Sheet
	X28-1520-0	COBOL Reference Card
	X28-1522-0	0709 7090 Comml Trnsltr Envrmt
	X28-6140 - 0	7090-9PAC IOCS Control Cards
	X28-6141-0	7090-9PAC-FP Dictionary DFF
	X28-6142-0	7090-9PAC-FP Vertical Chng Def
	X28-6143-0	7090-9PAC-FP Update Chng Def
	X28-6144-0	7090-9PAC-FP Horizontal Chng
	X28-6145-0	7090-9PAC-FP Change Report Req
	X28-6146-0	7090-9PAC-RG Report Definition
	X28-6147-0	7090 9 PAC RG Field Parameters
	X28-6148-0	7090-9PAC-RG Dictionary Def
	X28-6333-0	7040/44/90/94 Symb Coding Form
	X28-6380-0	7090/7094 IOCS Ref Card
	X28-6388-0	7090/94 Oper Reference Card
	X28-7327-4	FORTRAN Coding Forms
90	EDUCATION LITERATURE	Turkey A. L. DDC
	F22-6517	Introd to DPS
	R22-9761-3 N22-0560	COBOL Educ Guide
	R22-9762-2	COBOL Practice Problems
	R25-1677-1	FORTRAN Programming Prac Prob
	R25-9527-2	Educ Guide FORTRAN Programming
99	OTHER SUPPLEMENTARY INFORMATION	
	C20-8089-2	Glossary for Info Processing
		ordered for suite steepend
* Mine	or Revision. Does Not Obsolete Prior Editi	on Also Listed.

* Minor Revision, Does Not Obsolete Prior Edition Also Listed.

Note - The following publications are superseded as indicated.

01	A22-6760-0	N22-0148	Not Replaced
01	N22-0117		Replaced by A22-6528-6
(20	N20-0016-2		Replaced by C20-1604-2)

21	C28-6235-0	N28-0029			· .	•• .	Replaced by C28-6235-2
21	C28-6235-1*			•		,	Replaced by C28-6235-2
24	J28-6260-2	N28-0103	N28-0124				Replaced by C28-6391-0
(25	C28-6376-0	N28-0142					Not Replaced)
(27	C28-6385-0						Not Replaced)
30	N28-0096	N28-0105	N28-0121				Replaced by C28-6345-3
32	N28-0106	N28-0117	N28-0125				Replaced by C28-6364-4
36	N28-0091	N28-0118	N28-0135				Replaced by C28-6248-3
(36	N28-0139						Replaced by C28-6248-4)
36	N28-0140	N28-0144					Replaced by C28-6383-2
36	N28-0143	-					Replaced by C28-6384-2
36	N28-0145	N28-0148					Replaced by C28-6382-3

2. The Abstracts which follow are not included in the current issue of the Bibliography. New entries are identified by a vertical line to the left of the Abstract.

C28-6248-3 IBM 7090/7094 IBSYS OPERATING SYSTEM, VERSION 13: SYSTEM MONITOR (IBSYS)

36

This publication describes the use and general function of the System Monitor of the IBM 7090/7094 IBSYS Operating System, Version 13 (7090-PR-130). The IBSYS Operating System consists of a number of commercial and scientific programming aids operating under over-all control and direction of the System Monitor (7090-SV-918). It is designed to process sequentially a variety of unrelated jobs with little or no operator intervention. The system monitor includes the System Supervisor, the System Core-Storage Dump Program, the System Editor, the System Nucleus, and the Input/Output Executor. In general, the "Introduction" of this publication and the sections describing the System Supervisor and the System Core-Storage Dump Program are directed primarily to the applications programmer. The remaining sections are directed to the systems programmer.

C28-6345-3 IBM 7090/7094 IBSYS OP SYSTEM, VERSION 13: INPUT/OUTPUT CONTROL SYSTEM

30

This publication provides a description of the 7090/7094 Input/Output Control System in Version 13 of the IBSYS Operating System and includes detailed programming information. IOCS is a flexible programming system that automatically controls transmission of data to and from recording devices and makes the data readily available for processing. The publication contains discussions of basic concepts and explains the use of IOCS commands and routines. The techniques of sequential processing are discussed in the main body of the manual, and a separate section is provided on random processing. Several sample programs are included. Two forms of IOCS are contained in the IBJOB Subroutine Library and are used in conjunction with the Macro Assembly Program Full IOCS (7090-I/I-919) and is provided as an independent system for use with the IBM 7090/7094 FORTRAN II Assembly Program (IBSFAP). Differences in the two systems are made explicit in the publication. A third form, FORTRAN IOCS, is used by FORTRAN IV object programs.

C28-6355-3 IBM 7090/7094 IBSYŞ OP SYSTEM, VERSION 13: OPERATOR'S GUIDE

36

This publication provides the operator and machine-room personnel with complete instructions required to operate the IBM 7090/7094 IBSYS Operating System (Version 13).

Descriptions of System Monitor control cards, initial start procedures, system halts, and the online messages and their explanations are included in this publication.

C28-6386-1 IBM 7090/7094 IBSYS OPERATING SYSTEM, VERSION 13: SYMBOLIC UPDATE PROGRAM

48

This publication describes the capabilities of the Symbolic Update Program (7090-UT-978), the requirements for its implementation, and the pseudo-instructions it uses. This program operates under control of the IBM 7090/7094 IBSYS Operating System, Version 13, and allows users to modify serialized symbolic tapes, including those for the operating system itself.

C28-6389-0 7090/7094 IBSYS OPERATING SYSTEM, VERSION 13, IBJOB PROCESSOR

27

This publication describes the 7090/7094 IBJOB Processor and its components as it operates under IBSYS, Version 13. Included are descriptions of the IBJOB Processor, the functions that are performed by the components of the Processor, and the requirements for use of the Processor and its components. The publication is divided into three parts. The first part contains information for the application programmer, the second part contains information for the systems programmer, and the third part contains the text of all error messages for each component with appropriate explanations.

This publication describes the 7090/7094 FORTRAN IV language that is processed by the FORTRAN IV Compiler (IBFTC), \$7090-FO-805, a component of the 7090/7094 IBJOB Processor, which, in turn, is a subset of the IBSYS Operating System (Version 13). FORTRAN IV a problem-oriented programming language designed primarily for scientific computations, and it closely resemble the language of mathematics. It includes various types of arithmetic, control, input/output, and specification statements.

C28-6391-0 IBM 7090/7094 IBSYS OP SYSTEM, VERSION 13:

24

The COBOL language (Common Business Oriented Language) is a programming language closely related to English. This publication describes the COBOL language used with the 7090/7094 Data Processing System. Programs written in the COBOL language are translated by the 7090/7094 COBOL. Compiler (7090-CB-806), which is a component of the 7090/7094 IBJOB Processor, a subset of the IBSYS Operating System (Version 13). Part I of this publication describes the 7090/7094 COBOL language so that programmers with no prior knowledge of COBOL can plan and write programs in the language. Part II of this publication contains examples, programming pointers, control card information, and error messages.

C28-6392-0 IBM 7090/7094 IBSYS OP SYSTEM, VERSION 13: MACRO ASSEMBLY PROGRAM (MAP) LANGUAGE 21

This publication provides detailed information for writing source programs in the 7090/7094 Macro Assembly Program (MAP) Language. Users of the MAP symbolic programming language are provided with an extensive set of pseudo-operations, as well as all 7090/7094 machine operations. The Macro Assembly Program (7090-SP-804), IBMAP, is a component of the 7090/7094 IBJOB Processor and operates under the IBJOB Monitor.

C28-6393-0 IBM 7090/7094 IBSYS OP SYSTEM, VERSION 13: IBJOB PROCESSOR DEBUGGING PACKAGE

27

This publication describes the IBJOB Processor Debugging Package for use with the IBSYS Operating System (Version 13). The debugging package is a programming aid that enables the user to obtain dynamic dumps of specified areas of core storage and machine registers during program execution. The package contains two separate facilities: Compile-Time Debugging for COBOL programs and Load-Time Debugging for FORTRAN IV and MAP programs. Load-time debug requests are processed by the IBJOB Debugging Processor (IBDBL), \$7090-PR-807. Compile-time debug requests are associated with the COBOL compiler (IBCBC).

3. Program numbers of programming systems available for the IBM 7090 are listed below. The date of most recent modification is given. Abstracts and ordering instructions are found in Catalog of Programs and Programming Systems, C20-1604.

			MOD	MOD
PROGRAM NAME	NUMBER	VERSION	LEVEL	DATE
COBOL Compiler -IBCBC-	7090-CB-806	5	(4	06/01/65)
709/90 Commercial Translator	7090-CT-921	5	6	02/11/65
709/7090/32K FORTRAN	0790-FO-062	2	47	03/18/65
FORTRAN IV Compiler - IBFTC-	7090-FO-805	5	(4	06/01/65)
FORTRAN II Under IBSYS	7090-FO-928	3 2	(32	06/01/65)
S Program	0709-10-094	2	0	04/10/62
709/90	7090-10-919	6 2	4	04/27/65
Restart Program	7090 - 10-976	2	0	2/11/65
Library - IBLIB-	7090-LM-803	5	(5	06/01/65)
7090/7094 IBSYS Processor	7090-PR-130	13	(6	06/01/65)
7040/7090 Direct Couple Oper Sys	7090-PR-161	1	2	3/12/65
IBDBL/IBJOB Debugging Processor	7090-PR-807	2	(2	06/01/65)
7090/7094 90 PAC	7090-PR-924	4	2	3/25/64
7090/7094 IB Job Processor	7090-PR-929	5 3	0	2/11/65
7090/7094 Support Package for 7040/7044	70 7 0-SI-124		. 0	10/08/63
IBM 7090/7094 Support Package for S/360	7090-SI-162	(3)	0	(06/01/65)
7750 Simulator	7090-SI-946	1	0	12/12/62
Sort	0709-SM-066	1	20	3/20/62
Merge	0709-SM-067	1	13	5/30/61
7090/7094 Generalized Sort	7090-SM-922	7	6	05/10/65
Macro Assembly Program -IBMAP-	7090-SP-804	5 3 5	. 2	05/10/65
IBSFAP	7090-SP-920	3	0	7/31/63
Monitor -IBJOB-	7090-SV-801	5	4	05/10/65
Loader -IBLDR-	7090-SV-802	5	(4	06/01/65)
IBSYS	7090-SV-918	6	3	05/10/65
7090/7094 Hypertape Util Programs	709-UT-145	6 -	0	2/11/65
Disk Utility Package	7090-UT-927	3	1	04/27/65

Note - This SRL Newsletter was prepared on an IBM Magnetic Tape Selectric Typewriter.